

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
 )  
Yo YANAGIDA et al. )  
 ) Group Art Unit:  
Serial No.: Not Yet Assigned )  
 ) Examiner:  
Filed: September 2, 2003 )  
 )  
For: POWER LINE )  
COMMUNICATION DEVICE )  
FOR VEHICLE )

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§1.56 and 1.97(b), applicants bring to the Examiner's attention the documents listed on attached Form PTO-1449. A copy of the listed document is attached. Applicants respectfully request that the Examiner consider the documents listed on attached Form PTO-1449 and indicate that they were considered by making an appropriate notation on this form.

This Information Disclosure Statement is being filed with the above-referenced application.

The following is listed on the accompanying PTO-1449 and is in a non-English language:

1. Japanese Patent Application No. 7-50619.

In lieu of a statement of relevance or translation of the listed non-English language documents, an English-language abstract of the documents setting forth the relevance is enclosed.


This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed document is material or constitute "prior art." If the Examiner applies the document as prior art against any claim in the application and applicants determine that the cited document does not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed document, should the document be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: September 2, 2003

By:   
David W. Hill  
Reg. No. 28,220

Enclosures  
DWH/FPD/cma

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP  
1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	06753.0564	Serial No.	
Applicants	Yo YANAGIDA et al.		
Filing Date	September 2, 2003	Group:	

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS							
		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
		7-50619	02/21/1995	Japan			Abstract

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

**INTRA VEHICLE COMMUNICATION SYSTEM**

Patent Number: JP7050619  
Publication date: 1995-02-21  
Inventor(s): MORITA MASAHIRO; others: 01  
Applicant(s): SANYO ELECTRIC WORKS LTD  
Requested Patent: ☐ JP7050619  
Application Number: JP19930005382 19930114  
Priority Number(s):  
IPC Classification: H04B3/54; B60R16/02; H04B1/707  
EC Classification:  
Equivalents:

**Abstract**

**PURPOSE:** To make the communication system to be immune against noise, to reduce a wiring amount, to make the power density of signals small and to reduce influence to other equipments.  
**CONSTITUTION:** When the various kinds of switches on a control panel 7 are operated, a communication control circuit 10 generates command codes corresponding to signals outputted from the operated switch and outputs base band signals including the command codes to an SS modulation circuit 11. The SS modulation circuit 11 performs spectrum spreading to the inputted base band signals including the command codes and sends them out through a PLI 13 on a power line 1. The signals SS modulated and sent out from the transmission/reception part 6A of another on-vehicle electric apparatus are inputted through the PLI 13 of the control panel 7 to an SS demodulation circuit 12. The SS demodulation circuit 12 demodulates the inputted signals to the original base band signals. The communication control, circuit 10 inputs the demodulated base band signals, analyzes commands and sends out control signals to a function control circuit 7B based on the analyzed commands.

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